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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,787	08/24/2001	Masakazu Ukita	09792909-5137	2928
26263	7590 08/19/2005		EXAMINER	
SONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER			PENDLETON, BRIAN T	
			ART UNIT	PAPER NUMBER
	L 60606-1080		2644	
			DATE MAILED: 08/19/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/938,787	UKITA, MASAKAZU			
		Examiner	Art Unit			
		Brian T. Pendleton	2644			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address			
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THE PROPERTY	ON. FR 1.136(a). In no event, however, may a r.n. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on	15 July 2005.				
·	his action is <b>FINAL</b> . 2b) \(\simeq\) This action is non-final.					
3)□						
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-32 is/are pending in the application.</li> <li>4a) Of the above claim(s) 9-17 and 25-32 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1.2.6-8.18.20 and 22-24 is/are rejected.</li> <li>7)  Claim(s) 3.5.19 and 21 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Applicati	ion Papers					
10)⊠	The specification is objected to by the Example The drawing(s) filed on 24 August 2001 is/ Applicant may not request that any objection to Replacement drawing sheet(s) including the control The oath or declaration is objected to by the	are: a)⊠ accepted or b)□ ob the drawing(s) be held in abeyar prection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for for Mall b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Business the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachmen	t(s)					
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/Si r No(s)/Mail Date	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 			

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### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election without traverse of Species I in the reply filed on 7/15/05 is acknowledged.

Claims 9-17 and 25-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 7/15/05.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6-8, 18, 20, and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagata, US Patent 6,009,396. Nagata discloses a microphone array system comprising an array of microphones 1, frequency analysis unit 2, and sound source position search unit 3. Frequency analysis unit 2 is first means of decomposing the signals into a plurality of different frequency band signals. Sound source position search unit 3 is the third means for estimating the direction of signal sources. As shown in figure 9, Nagata accomplishes calculating cross correlation functions for determining the direction of signal sources. Claims 1, 8, 18, and 24 are met. As to claim 2, there is disclosed a band-pass filter bank in frequency analysis unit 2 (see column 5 lines 62-67). As to claims 4 and 20, step S4 in figure 9 discloses a

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normalization step and step S5 accomplishes addition. Per claims 7 and 23, there is disclosed a sound source. As to claims 6 and 22, Nagata discloses in column 9 lines 45-63 the use of weighted addition to reduce the influence of noise.

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## Allowable Subject Matter

Claims 3, 5, 19, and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chang et al, US Patent 6,469,732; Matsuo, US Patent 6,760,449.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527.

The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Examiner Art Unit 2644

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btp